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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,001	06/21/2001	Keijo Lauri Palviainen	781.403USWO	6767

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EXAMINER

FERGUSON, KEITH

ART UNIT	PAPER NUMBER
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2683

DATE MAILED: 06/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/869,001

Applicant(s)

PALVIAINEN, KEIJO LAURI

Examiner

Keith T. Ferguson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 6-21-01.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>8</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "**means**" and "**said,**" should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-9 are rejected under 35 U.S.C. 102(a) as being anticipated by Lahtinen (WO 97/17816).

The claimed invention reads on Lahtinen as follows:

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Lahtinen discloses a method of routing a terminating call in a mobile communication system (page 13 lines 9-31) comprising exchanges (PSTN, GMSC, MSC) (fig. 1) which are connected to each other by communication paths (fig. 1 and fig. 3), and at least one subscriber database (HLR or VLR) containing subscriber data (page 13 lines 9-31), said method comprising: transmitting a request from a routing exchange (gateway MSC) to said subscriber database (HLR) (page 13 lines 12-15), said request including at least a B-subscriber number (MSISDN) of said terminating call (page 13 lines 9-31), wherein retrieving a basic service code (GSM BCIE for speech service) for said terminating call from said subscriber database on the basis of the B-subscriber number (IMSI) included in the request (page 13 lines 15-19), transmitting a response from said subscriber database to said routing exchange (page 13 lines 15-27), said response including at least said basic service code (GSM BCIE) (page 13 lines 15-27), and routing said terminating call from the routing exchange to said B-subscriber (mobile station roaming number) (MSRN) by using communication paths that fulfill the property requirements of the call type indicated by said basic service code (page 13 lines 9-31).

Regarding claims 2 and 4, Lahtinen discloses said subscriber database is a home location register (page 13 lines 14-15), and that said response is a Send Routing Info ResE message wherein the basic service code is included (page 13 lines 14-31).

Regarding claim 3, Lahtinen discloses a mobile communication system (fig. 1) comprising: at least one subscriber database containing subscriber data (HLR or VLR) (fig. 1), and exchanges (GMSC and MSC) connected to each other by communication paths (fig. 1), at least one of said exchanges comprising means for transmitting a request to said subscriber database (page 13 lines 12-15), said request including at least a B-subscriber number (MSISDN) of a terminating call (page 13 lines 9-31), wherein said subscriber database comprises means for retrieving and transmitting to said exchange a basic service code (GSM BCIE) that corresponds to the B-subscriber number included in the request (page 13 lines 9-31), and said exchange comprises means for routing said terminating call to the B subscriber number by using communication paths (rout 2) that fulfill the property requirements of the call type (speech service) indicated by said basic service code (page 13 lines 9-31).

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Regarding claims 5 and 8, Lahtinen discloses said exchange comprises means for subjecting the B-subscriber number to a predetermined conversion selected according to the call type indicated by the basic service code (page 13 lines 29-31).

Regarding claims 6 and 9, Lahtinen discloses said exchange comprises means for converting the transmission medium requirement of the terminating call according to the call type indicated by the basic service code (page 13 lines 29-31).

Regarding claim 7, Lahtinen discloses an exchange (GMSC, MSC) of a mobile communication system (fig. 1), said exchange comprising: means for transmitting a request that includes at least a B-subscriber number of a terminating call (page 13 lines 12-15), and routing means for routing said terminating call (page 13 lines 9-31), wherein that said exchange comprises means for receiving a basic service code (GSM BCIE) (page 13 lines 26-31), and that said routing means are responsive to the received basic service code for routing said terminating call to the B-subscriber number by using a communication path that fulfills the property requirements of the call type indicated by said basic service code (page 13 lines 26-31).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (703) 305-4888. The examiner can normally be reached on 6:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith Ferguson
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May 17, 2004

